

PATENT

B. AMENDMENTS TO THE CLAIMS

- Subs
B1
- a
1. (original) Multipoint-to-point transmission method for sending frames of data from at least two sending nodes via one or more forwarding nodes to one receiving node in an ATM network wherein each frame of data is partitioned into cells, comprising the steps of:

the sending nodes include a first label into each of the cells representing an identification of the routing of the cell;

the sending nodes include a second label into each of the cells representing an identification of the source of the cell;

the forwarding node swaps both the first label associated with a forward direction and the second label associated with a backward direction using the swapping table.
 2. (original) Method according to claim 1, further comprising the step of:

the forwarding node swaps the first and the second label according to the same swapping table.
 3. (canceled, represented in independent form in new claim 11)
 4. (currently amended) Method according to claim 1 ~~or claim 3~~, further comprising the steps of:

PATENT

the swapping of the second label is carried out for the same ports of the respective forwarding nodes as for the first label.

5. (currently amended) Method according to one of claims ~~1 to 4~~ 1, 2, or 4, further comprising the step of:

the first label is written in and read from the VPI field of the respective cell and the second label is written in and read from the VCI field of the respective cell.

6. (currently amended) Apparatus for sending frames of data in a multipoint-to-point fashion from at least two sending nodes via one or more forwarding nodes to one receiving node in an ATM network wherein each frame of data is portioned into cells, comprising:

in the sending nodes, means for including a first label into each of the cells representing an identification of the routing of the cell;

in the sending nodes, means for including a second label into each of the cells representing an identification of the source of the cell;

in the forwarding node, means for swapping both the first label associated with a forward direction and the second label associated with a backward direction using the swapping table; and

in the forwarding node, with respect to the second label, means for entering the swapping table in the

PATENT

column of the output labels and reading the
corresponding input label.

7. (original) Apparatus according to claim 6, further comprising:

in the forwarding node, means for swapping the first and the second label according to the same swapping table.

8. (canceled)

9. (new) Apparatus according to claim 6, wherein the means for swapping the second label is carried out for the same ports of the respective forwarding node as for the first label.

10. (new) Apparatus according to claim 6, wherein the first label is written in and read from a VPI field of the respective cell and the second label is written in and read from a VCI field of the respective cell.

11. ~~(new, re-presented- formally dependent claim #3)~~
Multipoint-to-point transmission method for sending frames of data from at least two sending nodes via one or more forwarding nodes to one receiving node in an ATM network wherein each frame of data is partitioned into cells, comprising the steps of:

the sending nodes include a first label into each of the cells representing an identification of the routing of the cell;

PATENT

the sending nodes include a second label into each of the cells representing an identification of the source of the cell;

the forwarding node swaps both the first label associated with a forward direction and the second label associated with a backward direction using the swapping table; and
with respect to the second label, the forwarding node enters the swapping table in the column of the output labels and reads the corresponding input label.

12. (new) Method according to claim 11, further comprising the step of:

the forwarding node swaps the first and the second label according to the same swapping table.

13. (new) Method according to claim 12, further comprising the step of:

the first label is written in and read from a VPI field of the respective cell and the second label is written in and read from a VCI field of the respective cell.

14. (new) Method according to claim 11, further comprising the step of:

the swapping of the second label is carried out for the same ports of the respective forwarding node as for the first label.

PATENT

15. (new) Method according to claim 14, further comprising the step of:

the first label is written in and read from a VPI field of the respective cell and the second label is written in and read from a VCI field of the respective cell.

16. (new) Method according to claim 11, further comprising the step of:

the first label is written in and read from a VPI field of the respective cell and the second label is written in and read from a VCI field of the respective cell.